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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,436	09/06/2005	Silvio Aime	57708/380	7608
35743 7590 09/15/2009 KRAMER LEVIN NAFTALIS & FRANKEL LLP INTELLECTUAL PROPERTY DEPARTMENT 1177 AVENUE OF THE AMERICAS			EXAMINER	
			SCHLIENTZ, LEAH H	
-	NEW YORK, NY 10036		ART UNIT	PAPER NUMBER
			1618	
			NOTIFICATION DATE	DELIVERY MODE
			09/15/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

klpatent@kramerlevin.com

	Application No.	Applicant(s)		
	10/522,436	AIME ET AL.		
Office Action Summary	Examiner	Art Unit		
	LEAH SCHLIENTZ	1618		
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet with the	he correspondence address		
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statution, reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 1.136(a). In no event, however, may a reply but will apply and will expire SIX (6) MONTHS ute, cause the application to become ABAND	TION. De timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>15</u> This action is FINAL . 2b) ☑ The 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters,			
Disposition of Claims				
4) ☐ Claim(s) 1,3,6,7 and 12-15 is/are pending in 4a) Of the above claim(s) 14 and 15 is/are wi 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,3,6,7,12,13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	thdrawn from consideration.			
Application Papers				
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) as Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the B	ccepted or b) objected to by the drawing(s) be held in abeyance. Exection is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Sumn Paper No(s)/Ma 5) Notice of Inform 6) Other:			

DETAILED ACTION

Acknowledgement of Receipt

Applicant's Response, filed 5/18/2009, in reply to the Office Action mailed 11/18/2008, is acknowledged and has been entered. Claims 1, 2, 14 and 15 have been amended. Claims 2, 4, 5 and 8-11 have been cancelled. Claims 1, 3, 6, 7 and 12-15 are pending, of which claims 14 and 15 are withdrawn from consideration at this time as being drawn to a non-elected invention. Claims 1, 3, 6, 7, 12 and 13 are readable upon the elected invention and are examined herein on the merits for patentability.

Response to Arguments

Any rejection not reiterated herein has been withdrawn as being overcome by amendment. Applicant's arguments have been fully considered but they are not persuasive for reasons set forth hereinbelow.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kabalka *et al.* (*Mag. Res. in Medicine*, 1988, 8, 53, p. 89 – 95), as evidenced by Encylopedia Britannica Article, "Reticuloendothelial System," in view of Ranney (US 5,155,215), for reasons set forth in the previous Office Action.

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Applicant argues on pages 11-12 of the Response that Kabalka fails to teach or suggest a method of cellular labeling where administered insoluble particles are degraded by enzymes specific to the cell type whose detection is sought. Applicant argues that instead Kabalka merely describes concentration of liposomes in macrophage rich organs, and that degradation is due to "the more labile nature of the ester linkage in the acidic environment of the liver."

This is not found to be persuasive. The claims are not limited to any specific enzymes, and include degradation by "effectors in the environment surrounding the particles." Furthermore, degradation of ester can be achieved by esterases.

Applicant further argues that Kabalka only enables imaging of an organ, not a cell type processing specific degratory enzymes, and that in Kabalka local macrophages in the organ engulf the liposomes, thus allowing imaging of the organ. Applicant argues that Kabalka fails to teach degradation into single units of paramagnetic chelate useful for MRI, and that Kabalka teaches away from degradation as means of imaging and that Kabalka touts the long half-life of the liposomes in liver.

This is not found to be persuasive. Given the broadest reasonable interpretation of the intended use of the claims for "cellular labelling," MRI would provide images of cells within the organ which have taken up the contrast agent (e.g. RES cells in liver, for example). Regarding Applicant's argument that Kabalka does not teach degradation to single unit paramagnetic chelate, Kabalka teaches degradation to Gd-DTPA on page 94. With respect to Applicant's argument that Kabalka teaches away from degradation

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as a means of imaging, touting the long half-life of liposomes in liver, Applicant's claims include increasing lifetime of particles in blood, see dependent claim 12.

New Grounds for Rejection

Claim Rejections - 35 USC § 103

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Claims 1, 3, 6, 7, 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kabalka *et al.* (*Mag. Res. in Medicine*, 1988, 8, 53, p. 89 – 95), as evidenced by Encylopedia Britannica Article, "Reticuloendothelial System," in view of Ranney (US 5,155,215), for reasons set forth in the previous Office Action.

With regard to claim 7, Ranney teaches Mn as a functionally equivalent paramagnetic metal ion to Gd (see claim 9).

With regard to claim 12, liposome components of Kabalka increase the lifetime of particles in blood.

With regard to claim 13, Ranney teaches the benefits of targeted imaging such as for uptake by receptors, see column 9, lines 60+.

Conclusion

No claims are allowed at this time.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leah Schlientz whose telephone number is (571)272-9928. The examiner can normally be reached on Monday - Friday 8 AM - 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Hartley can be reached on 571-272-0616. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael G. Hartley/ Supervisory Patent Examiner, Art Unit 1618

LHS